

HD PENTAX-DA 18-50mmF4-5.6 DC WR RE OPERATING MANUAL

Thank you for purchasing the HD PENTAX-DA 18-50mmF4-5.6 DC WR RE lens. This lens is an interchangeable lens specifically designed for digital cameras. Its optical system is optimized for the characteristics of digital images.

Please read this operating manual carefully before using the lens to ensure that it is used properly. In addition, also refer to your camera operating manual.

To use this lens, please keep the firmware of the camera up to date.

- Illustrations shown herein may differ from the actual appearance.

Specifications and external dimensions are subject to change without notice.

Refer to your camera operating manual for details about mounting and removing the lens.



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Precautions When Using the Lens

■ Storage and mildew prevention

- Take the lens out of the protective case or camera bag, and store it in a dry, well-ventilated place.
- Avoid storing the lens in a poorly ventilated place such as a closet, wardrobe, drawer, vehicle, or where insect repellent or medicine is kept.
- Avoid storing the lens in areas of high temperature and humidity, where there is a risk of mildew growth. Store the lens with a desiccant (anti-mildew agent) in a dry cabinet, airtight container, or plastic bag.

■ Precautions and lens maintenance

- Never use any organic solvent such as thinner, alcohol, or benzine, etc. to remove dust on the lens.
- The lens is a precise optical instrument. Be careful not to let it fall, or subject it to strong shocks or pressure. Use a cushion or similar pad to protect the lens from the vibrations of motorcycles, automobiles, boats, etc.
- Avoid subjecting the lens to rapid changes in temperature, otherwise condensation can occur both inside and outside of the lens. Put the lens in a plastic bag or camera bag, and take it out after the lens has reached ambient temperature.
- When the lens is not attached to the camera body, attach both the supplied lens cap and lens mount cover to protect it from dust.
- Do not leave the camera with the lens cap off attached to a tripod or other rigid camera support. The inner parts of the camera can be damaged by direct sunlight.

* Have the lens inspected by a dealer every one or two years to maintain its high performance.

FOR SAFE USE OF YOUR LENS

Although we have carefully designed this lens for safe operation, please pay special attention to items marked with the following symbols when using the lens.

⚠ Warning This symbol indicates precautions that if not followed, could result in serious injury to the user.

⚠ Caution This symbol indicates precautions that if not followed, could result in minor or medium injury to the user or damage to the equipment.

⚠ Warning

Never look at the sun through the lens mounted on the camera for a long time. Serious damage to your eyes or total loss of eyesight may occur, particularly when looking directly through the lens.

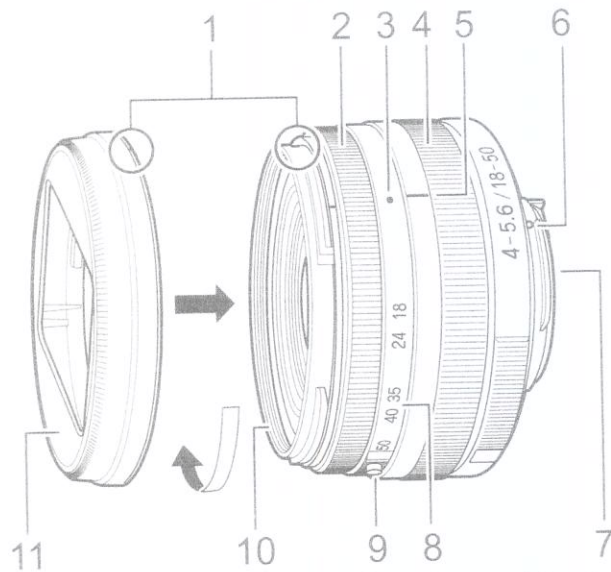
⚠ Caution

Do not leave the lens in direct sunlight without a lens cover or lens cap. Direct sunlight passing through the lens will be intensified, and should it focus on flammable materials, fire may occur.

Features of This Lens

- This lens uses our unique multi coating: "HD Coating (High Definition Coating)", which has higher transmission of light with less reflection than existing coatings. This coating prevents flare and realizes to achieve image quality with excellent contrast.
- You can focus manually without switching the autofocus mode by using the "Quick-shift Focus System".
- This lens has a water-resistant construction with each part individually sealed.
- SP (Super Protect) coating applied to the front surface of the lens to effectively repel water and grease and easily wipe off dust and stain.
- A collapsible mechanism is used to enable storing of the lens in a compact size.

Names of Parts



* This lens does not have an aperture ring. Aperture settings are controlled automatically as if set to the auto "A" position, so accessories without an auto "A" setting cannot be used with this lens.

■ About the Lens Hood PH-RBJ58

Using a lens hood is recommended to block stray light from entering the lens. The internal reflection of stray light degrades image quality.

<How to attach>

Align the index on the lens hood with the attaching index on the lens, and push both parts straight toward each other. Attach the lens hood to the lens by turning the hood in a clockwise direction, as seen from the front of the lens, until it stops. Turn the hood counterclockwise to remove it.

* Vignetting occurs if the camera is used while the hood is not completely attached.

■ About the Lens Cap

When not using the lens, be sure to attach the lens cap.

<How to attach the dedicated lens cap O-LW67A>

Attach the lens cap over the lens hood PH-RBJ58.

CAUTION

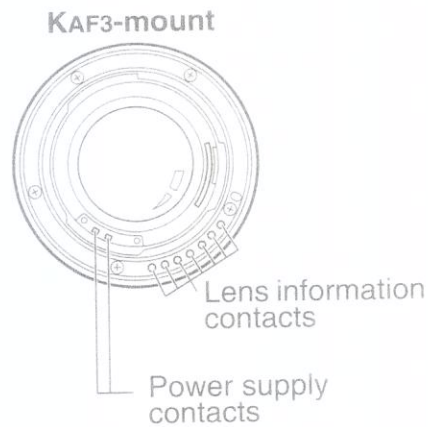
The lens hood PH-RBJ58 cannot be used in combination with the optional lens cap O-LC58. Use the lens hood PH-RBJ58 together with the lens cap O-LW67A.

- | | |
|-----------------------------|-----------------------|
| 1 Lens hood attaching index | 7 Lens mount |
| 2 Zoom ring | 8 Focal length scale |
| 3 Lens storing position | 9 Lock button |
| 4 Focusing ring | 10 Front-ring thread |
| 5 Zooming index | 11 Lens hood PH-RBJ58 |
| 6 Mounting index | |

■ About the Lens Mount

The lens mount of this lens is called "KAF3-mount". With power supply contacts and lens information contacts, this lens mount enables autoexposure and DC motor in the lens.

When using a camera that does not support an internal motor, neither autofocus nor manual focus is available.



CAUTION

Be careful not to damage or dirty the lens information contacts and the power supply contacts on the mount surface of the lens. Otherwise, failure or malfunction may result.

■ About Lens Filters (commercially available)

Screw a commercially available 58 mm diameter filter to the front of the lens.

CAUTION

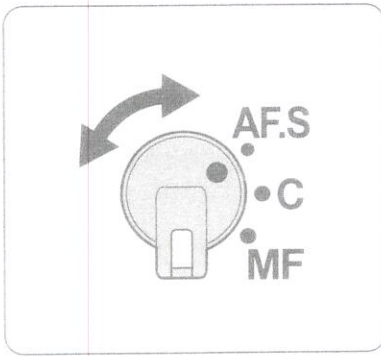
- Since a filter becomes a part of the optical system when attached to the lens, handle it with due care to protect it from dust, dirt and scratches.
- Use a circular polarizing filter if you attach a filter to a PENTAX digital SLR camera. If you use a normal polarizing filter, exposure and autofocus are less-accurate.
- You may not be able to attach the lens hood PH-RBJ58 to the lens depending on the type of filter that is installed.

■ About Lens Storing

Rotating the zoom ring while lightly pressing the lock button, and aligning the index of the lens storing position with the zooming index shortens the lens barrel and enables you to carry the lens conveniently.

- * Rotate the zoom ring while lightly pressing the lock button and perform the shooting within the range from 50 to 18 on the zoom scale. You cannot shoot within the range from 18 to the lens storing position.
- * Turning on the camera restores the focus position to the initial setting.
- * The rotation of the zoom ring may become heavy if the lens is pointed downward when storing the lens barrel.

Focusing



■ Focus Mode Switching

Switch between the autofocus mode and manual focus mode on the camera. For details, refer to your camera operating manual.

* The forms of focus mode switch vary with the camera.

■ Using Autofocus

Set the camera's focus mode to AF, and press the shutter release button halfway to autofocus.

- With the cameras having the AF button, you can also press the button to autofocus.

■ Using Manual Focus

Set the camera's focus mode to MF, and turn the focusing ring to focus manually.

Precautions When Using a Flash

- Use the built-in flash when the shooting distance is 0.7 m or more. When the distance is shorter, exposure control is incorrect and vignetting in the picture occurs.
- If the shooting distance is 0.7 m or more, the built-in flash can be used without problem while the lens hood PH-RBJ58 is mounted.
- If the zoom [coverage angle] that you set is compatible with the angle of view of the lens, external flash units can be used without problem while the lens hood PH-RBJ58 is mounted.

■ Using the Quick-shift Focus System

When using the lens with compatible PENTAX digital SLR cameras, you can always adjust the focus manually in the autofocus mode by rotating the focusing ring while holding down the shutter release button halfway (or holding down the AF button).

CAUTION

Keep pressing the shutter release button (or AF button) after you achieve proper focus and before taking a picture. If you let go of the shutter release button before taking the picture, autofocus will operate again when you press the shutter release button again.

Main Specifications

Focal Length (in 35 mm format equivalent)	18-50 mm (27.5-76.5 mm)
Lens Construction	11 elements in 8 groups
Angle of View	76°-31.5°
Maximum Aperture	F4-5.6
Minimum Aperture	F22-32
Mount	KAF3
Minimum Focusing Distance	0.3 m/0.98 ft.
Maximum Magnification	0.23x
Filter Diameter	58 mm
Maximum Diameter x Length	Approx. 71 mm/2.8 in. x 41 mm/1.6 in.
Weight	Approx. 158 g/5.6 oz. (with hood approx. 165 g/5.8 oz.)
Lens Cap	O-LW67A(provided), O-LC58(optional)
Package Contents	Lens hood PH-RBJ58, Lens cap O-LW67A, Lens mount cover